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Applicant:

James F. Bredt et al.

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MATERIAL SYSTEMS AND METHODS OF THREE

DIMENSIONAL PRINTING

Art Unit:

1742

CERTIFICATE OF MAILING UNDER 37 C.F.R. §1.8(a)

The undersigned hereby certifies that this document is being placed in the United States

Commissioner for Patents Washington, D.C. 20231

PRELIMINARY AMENDMENT

Sir:

Please amend the above-identified application as follows

In the Claims

Please cancel claims 12-20, 43-54, 61-72, 78-84, 106-111 and 113-114. Please rewrite claims 1, 21, 27-30, 55, 57, 59, 73, 85, 93, 112 and 115 as follows.

1. (Amended) A method of three-dimensional printing, comprising: providing a first layer of free-flowing particulate material comprising an ionic reactant;

dispensing a homogeneous fluid onto a first region of the first layer, the fluid comprising an ionic reactant and the first region being contiguous with a second region comprising the free-flowing particulate material;

allowing an ion exchange reaction to occur between the particulate reactant and the reactant in the fluid, the reaction causing a solidified material to form in the first region;